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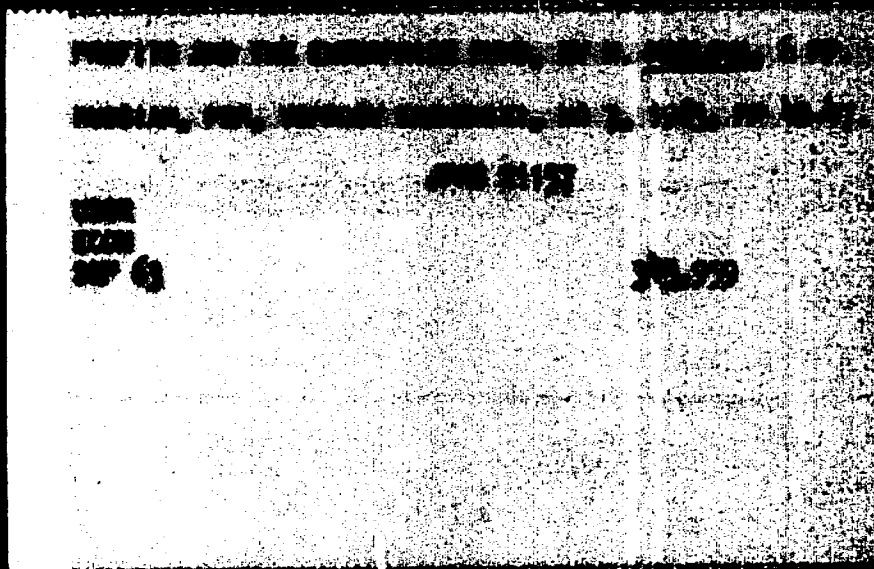
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Benzene derivatives, Synthesis (Chemistry),
*Cyclohexanes, Dehydrogenation, *Alumina-silica
catalysts, *Fuels, Production.

(Chemistry--Organic, TT, v. 11, no. 3)

TT-63-20804

I. Maslianski, G. N.
II. Berlin, T. S.
III. Title: Conversion...

4557937

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Maslyanski, G. N.
KINETICS OF ISOMERIZATION OF CYCLOHEXANE
UNDER ELEVATED PRESSURES. [1961] 11p. 28 refs.
Order from OTS or SLA \$1.10 61-16913

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13,
p. 540-551.

DESCRIPTORS: *Cyclohexanes, Reaction kinetics,
Catalysts.

The catalytic isomerization of cyclohexane over molybdenum sulfide under hydrogen pressure was investigated and the kinetic regularities of this reaction established. The isomerization velocity depends upon the partial pressure of cyclohexane, but is independent of the partial pressure of hydrogen. The order of the reaction of isomerization of cyclohexane over molybdenum sulfide is close to 0.6. The apparent energy of activation of cyclohexane at 370-430° is $35,400 \pm 1,000$ calories. Accordingly the temperature coefficient on (Chemistry--Physical, TT, v. 6, no. 7) (over

61-16913

I. Maslyanski, G. N.

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DESTRUCTIVE HYDROGENATION OF BENZENE.
[1961] 10p. 28 refs.
Order from OTS or SLA \$1.10

61-18193

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 148-160.

DESCRIPTORS: *Benzenes, Hydrogenation, Hydrocarbons, Catalysts, Molybdenum compounds, Oxides.

Molybdenum oxide catalysts suitable for destructive hydrogenation in the vapor phase, developed at the author's laboratory, were previously found to be very efficient in cracking of hydrocarbons. In order to investigate the nature of the chemical reactions occurring on these catalysts, conversion of benzene was studied in this work and the products obtained investigated, considering also the results reported by some other authors. Among these products, methylcyclopentane (58%), normal pentane (1.5%), 2-methylbutane (1.5%). (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18193

I. Maslyanskii, G. N.

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DESULFURIZATION OF GASOLINE ON A NICKEL
CATALYST. [1961] 5p, 10 refs.
Order from OTS or SLA \$1.10 61-18164

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1944, v. 45, p. 24-26.

DESCRIPTORS: *Gasoline, Nickel catalysts,
Desulfurization, Fuels.

It was attempted to effect desulfurization of straight run
gasoline with end point 115°C and a sulfur content of
0.12-0.29% at 200°C, 10 atm hydrogen pressure, a
space velocity of 2 and a ratio of hydrogen to gasoline
of 6:1. At the lowest of the indicated sulfur contents
the catalyst was stable and the sulfur reduced to 0.01%
within 30 hours. With a higher content of sulfur the
nickel catalyst became poisoned. With a higher ratio
(Materials--Fuels, TT, v. 6, no. 7) (over)

61-18164

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Conversions of Cyclohexane on a Molybdenum Catalyst,
by N. R. Bursian, G. N. Maslyanskiy, 6 pp. ,

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Catalytic Demethylation of Tobacco, by 72
G. N. Maslyanskiy.
RUSSIAN, per, Neftokhimiya, Vol 2, No 3, 1962,
pp 709-713.
ATS RJ-5383

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Dehydrogenation Kinetics of Cyclohexane and Its Homologs
on a Chromia Catalyst at Atmospheric Pressure, by
G. N. Maslyanskiy, N. R. Bursian.

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Jul 59

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TOBACCO, RESPIRATORY PATHOLOGY AND BRONCHIAL CANCER. [1962] 9p.
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Trans. of la Prensa Medica Argentina, 1957, v. 44, no. 30, p. 2368-2371.

DESCRIPTORS: *Tobacco, Smokes, Cigarettes.
Nicotine, *Respiratory system, Pathology. *Cancer.

(Biological Sciences--Pathology, TT, v. 8, no. 10)

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 7 pp.
 PUBLISHED BY: Public Health Service
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 P1-60

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saro, J. A. Duarte Roca.

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1969, 6 P.

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ID 2204017468

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